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中国蒿属植物新资料（Ⅱ）

林有润

MATERIAE NOVAE GENERIS ARTEMISIAE CHINENSIS（Ⅱ）

Ling Yeou-ruenn

蒿属 Artemisia Linn., sensu angusto (续)

11. 甘新青蒿 （新种）　图9

A. polybotryoidea Y. R. Ling, sp. nov.

(Sect. *Abrotanum* Bess.)

Species habitu *A. annuae* Linn. & *A. gmelinii* Web. ex Stechm. sed differt planta perenni, foliis caulinis medianis (4-)3-pinnatisectis, lobis utrinque 5—8, lobulis minoribus, ellipticis vel linearibus, saepe laciniatis subtus parce pallido-pubescentibus vel glabrescentibus, costis supra concavis subtus elevatis. Paniculis amplis, bracteis dorso glabris, capitulis 3.5—4mm diam., pedicellatis.

Herba perennis. Rhizoma lignosum, ramis sterilibus praeditum. Radix crassata verticalis. Caules multi caespitosi, 50—

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本文承王文采教授审阅并提宝贵意见，谨致感谢。

60cm alti, brunnei, glabri, striati; ramis numerosis 15—25cm longis, glabris. Folia basalia et caulina inferiora ante anthesin decidua, folia caulina mediana subpapyracea, supra glabra, sed albo-punctata, subtus parce pallido-pubescentia vel glabrescentia, petiolata, petiolis 2.5—3.5cm longis, basi stipuliformibus lacinii-pinnatisectis, semiamplexicaulibus, ambitu ovata vel elliptica, 4—5.5cm longa et 2.5—3.5cm lata, (4-)3-pinnatisecta, lobis primariis utrinque 5—8, secundariis pinnatisectis vel pinnatipartitis utrinque 6—8, lobulis minoribus, ellipticis, linearibus vel laciniatis, 1—3mm longis et 0.5—1mm latis, interdum serrulatis, costis supra concavis subtus elevatis, rachidi multiserrulata; folia caulina superiora et subfloralia 3—2-pinnatisecta. Panicula ampla ramulosa; capitula numerosa, globosa, 3.5—4mm diam. pedicellata, bracteolata, ad ramos in racemos spiciformes disposita. Involucri phylla 3—4-seriata; bracteae equales, exteriores et medianae ovatae vel longe ovatae, dorso subglabrae, margine late membranaceae, interiores obovato-oblongae, submembranaceae; flores marginales feminei 8—12; corolla subconica, apice 3—2-dentata; styli formes 2-divaricati apice acuti; flores hermaphroditi 25—35; corolla tubulosa; antherae lineares, apice appendicibus acutis longe triangulatis praeditae, basi breve acutae; styli corollae aequilongi, ramis apice truncatis, penicillatis. Achaenia obovoidea. Receptaculum conicum nudum.

Xinjiang (新疆): Altay (阿勒泰), G. L. Chu (朱格麟) 7281, (**Holotypus**; IBNWTC* Isotypus. PE & SCBI); **Gansu (甘肃)**: Yuzhong (榆中), LZU Herb. no. (兰州大学标本室号) 46454

产**新疆**及**甘肃**，生长在1,000—1,550米附近干山坡或路旁。**模式标本**产新疆。

本种近似于黄花蒿 *A. annua* Linn. 及白莲蒿 *A. gmelinii* Web. ex Stechm.，区别是本种为多年生植物，茎中部叶背面微被灰白色短柔毛或近无毛，每侧具5—8枚裂片，小裂片细小椭圆形或短线形稀少为栉

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齿，中肋在叶面上凹下，背面凸起；头状花序略大，直径3.5—4毫米，具短柄，在茎上排成宽展而伸长的圆锥花序，总苞片无毛等。

12. **阿克赛蒿** （新种） 图10

A. aksaiensis Y. R. Ling, sp. nov.

(Sect. *Abrotanum* Bess.)

A proxima *A. santolinifolia* Turnz. ex Bess. differt foliis caulinis inferioribus et medianis (3-)2-pinnatisectis, lobis primariis utrinque 3(-4), lobulis ellipticis vel longe ovatis, 2—4 mm longis 1—1.5mm latis, Paniculis amplis, capitulis magnis, 5—8mm diam. pedicellatis, (0.4-)0.6—1.5cm longis ad ramulos in racemos et ad ramos in racemos compositos dispositis.

Herba perennis vel suffrutescens, tota planta initio incano-puberula demum subglabrescens. Rhizoma sat crassate lignosum, 0.5—1cm vel ultra diam., ramis sterilibus praeditum. Radix crassiuscula, lignosa, verticalis, radicibus lateralibus numerosis. Caules multi, erecti caespitosi, 40cm vel ultra longi, brunnei vel fusci, inferne lignosi superne sublignosi, ramis multis 20—40cm longis ramulosis. Folia papyracea, supra initio albo-punctata; folia caulina inferiora et mediana petiolata, petiolis 1—2om longis, basi semi-amplexicaulibus et minoribus stipuliformibus, ambitu ovata vel ovato-rotunda, 2—2.5cm longa et 1.5—2cm lata, (3-)2-pinnatisecta, lobis primariis utrinque 3(-4), lobulis utrinque 3—4, sectis, minoribus ellipticis vel oblongis, 2—4mm longis et 1—1.5mm latis, apice obtusis, interdum lobulis basalibus 1—2-laciniatis; folia caulina superiora et subfloralia 2—1-pinnatisecta, lobulis minoribus ellipticis, oblongis vel sublaciniatis. Panicula ampla ramulosa; capitula hemispherica vel fere spherica, 5—8mm diam., pedicellata, pedicellis 0.6—1.5cm, raro 0.4—0.5mm longis, basi bracteolis linearibus praedita, ad ramulos in racemos et ad ramos in racemos compositos disposita. Involucri phylla 3—4-seriata; bracteae exteriores lanceolatae vel ovatae, medianae et interiores ovatae, exteriores et medianae dorso parce incano-pubescentes, margine late menbranaceae, interiores submembra-

naceae, subglabrae; flores marginales feminei 6—11; corolla anguste tubulosa, apice 2—0-dentata; styli filiformes, 2-divaricati apice acuti; flores hermaphroditi 12—18; corolla tubulosa; antherae lineares apice appendicibus acutis longe triangulatis praeditae, basi obtusae; styli corollae aequilongi, ramis 2-divaricatis, apice truncatis. Achaenia obovoidea. Receptaculum nudum.

Gansu (甘肃): Aksai (阿克赛), G. L. Chang (张国梁), 1562, a. b. c. (Holotypus; PE, Isotypus; LZU)

产甘肃西部阿克赛哈萨克族自治县，生长在海拔3,100—3,800米坡地上。模式标本产甘肃阿克赛。

本种近似于细裂叶莲蒿 *A. santolininifolia* Turcz. ex Bess., 区别是本种茎下部与中部叶（三－）二回羽状全裂，每侧裂片３（－４）枚，小裂片椭圆形或长卵形，长２－４毫米，宽１－1.5毫米；头状花序大，直径５－８毫米，具长梗或短梗，长（0.4－）0.6—1.5厘米，在小枝上排成总状花序而在分枝上排成复总状花序，上述花序在茎上排成宽展多分枝的圆锥花序。

13. 阿坝蒿　（新种）　图11

A. abaensis Y. R. Ling & S. Y. Zhao**, sp. nov.

(Sect. *Artemisia*)

Proxima *A. roxburghianae* Bess., a qua differt caulibus ramisve pilosis et villosis, foliis caulinis medianis bipinnatisectis velpartitis, lobis utrinque (4－)5—6, interspatiis inter lobos laterales latis, capitulis minoribus, longe ovoideis vel ovoideo-campanulatis, 1.5—2mm diam., paniculis amplis, ramosis.

Herba perennis. Rhizoma gracile vel crassiusculum. Radices graciles, verticales vel subverticales. Caulis singularis vel nonnullus 1m vel ultra altus, herbidus vel inferne sublignosus, erectus, striatus cum ramis pilosus et villosus, ramis multis, 30—40cm longis, ramulosis. Folia papyracea, supra parce arachnoideo-tomentosa et parce albo-punctata, subtus dense pallido-arachnoideo-tomentosa; folia basalia ante anthesin decidua,

** Z. Y. Zhao (赵素云)：四川省中药研究所 (Sichuan Institute of Chinese Materia Medica, SICMM).

caulina media petiolata vel subsessilia, petiolis 0.3—0.5cm longis, basi minimis sectis, stipuliformibus, ambitu longe ovata vel elliptica, 6—8cm longa et 3.5—4.5cm lata, bipinnatisecta, lobis primariis utrinque (4-)5—6, ellipticis, intes lobos laterales interspatiis latis, lobulis utrinque 2—3, partitis vel laciniatis, minis, ellipticis vel longe ovatis, apice acutis, lobulis terminalibus longioribus 0.5—1.2cm longis et 2—4 mm latis, margine integris vel raro 1—2-serratis, rachidibus anguste alatis; folia caulina superiora et subfloralia sessilia, 2—1-pinnatipartita, 3-secta vel indivisa et lanceolata. Panicula ampla, ramosissima; capitula longe ovoidea vel ovoideo-campanulata, 1.5—2mm diam., basi bracteolata, bracteolis linearibus, ad ramulos in spicam vel spicam compositam disposita. Involucri phylla 3—4-seriata, bracteis exterioribus minoribus, anguste ovatis, dorso parce arachnoideo-puberulis, bracteis medianis ovatis, longioribus quam exterioribus, dorso parce vel subarachnoideo-puberulis, costa viridi, bracteis interioribus submembranaceis, ovatis, dorso subglabris; flores marginales feminei 2—5; corolla anguste tubuliformis, apice 2—0-dentata, purpurascens; styli filiformes longioribus, 2-bivaricatis, apice acutis; flores hermaphrodiii 4—8; corolla tubulosa, apice purpurascens, post anthesin revoluta; antherae lineares, apice appendicibus acutis longe triangulatis praeditae, basi obtusae; styli corollae aequilongi, ramis apice truncatis, penicillatis. Achaenia minora, obovoidea. Receptaculum nudum.

Sichuan (**四川**): Aba, Nanping (阿坝, 南坪) S. Y. Zhao (**赵素云**) 82—133, (**Holotypus**; SCBI, Isotypus; SICMM), l. c. 82—125, 82—128, (SCBI et SICMM).; **Qinghai** (**青海**): E. Qing. (青海东部), non Coll. no. (无采集人、号) (PE); **Gansu** (**甘肃**): S. Gans. (甘肃南部), non Coll. no. (无采集人、号) (PE)。

产四川（西部，阿坝藏族自治州）、**青海**（东部）及**甘肃**（南部）。生长在湖边、沟边及路旁。**模式标本**来自四川阿坝州南坪九寨沟。

本种外形近似于灰苞蒿 *A. roxburghiana* Bess., **区别：本种茎、枝**

密被灰黄色或淡黄色多节的长柔毛与细绵毛；茎中部叶二回羽状全裂或深裂，每侧裂片（4－）5－6枚，裂片间隔宽；头状花序小，长卵形或卵状钟形，直径1.5—2毫米，在茎上组成宽展、具多级分枝的圆锥花序。

14. 川西腺毛蒿 （新种） 图12

A. occidentali-sichuanensis Y. R. Ling & S. Y. Zhan, sp. nov.

(Sect. *Viscidipubes* Y. R. Ling)

A. pleiocephalae Pamp. & *A. shennongiaensi* Ling & Y. R. Ling proxima, sed differt ramis gracilibus, longioribus, totis caulibus et ramis ramulisve dense viscidi-puberulis, foliis supra et subtus secus costam et venas viscidi-puberulis, subtus ceterum dense arachnoideo-tomentosis, foliis caulinis medianis 2-pinnatisectis, lobis utrinque 4—5, interspatiis latis inter lobos laterales, lobis terminalibus longioribus, linearibus, lineari-lanceolatis vel longe ellipticis; capitulorum bracteis externis dorso subglabris vel parce arachnoideo-pubescentibus.

Herba perrenis; rhizoma gracile; radices graciles verticales vel subverticales. Caules singulares vel nonnulli, herbidi vel inferne sublignosi, erecti, 1.5m vel ultra alti, striati, ramis multis, longioribus, 20—60cm longis, ramulosis, cum ramis toti dense glanduloso-puberuli, brunnei vel brunneoli. Folia papyracea, supra et subtus secus costam et venas viscidi-puberula, subtus ceterum dense arachnoideo-tomentosa; folia caulina inferiora ante anthesin decidua; folia caulina mediana brevi-petiolata, petiolis 0.5—1.5cm longis, basi stipuliformibus, pinnatisectis, ambitu oblonga vel elliptica, 4—8(-9)cm longa et 3—4.5cm lata, 2-pinnatisecta, lobis utrinque 4—5, saepe 1—2-lobulis, terminalibus longioribus, 1—2cm longis et 1.5—3mm latis, lateralibus longe ellipticis vel linearibus, interspatiis inter lobos laterales latis, rhachidibus angusto-alatis; folia superiora 2—1-pinnatisecta et subfloralia sessilia, pinnatisecta, 3-secta vel integra, lineari-lanceolata vel linearia. Panicula ampla, ramis ramulisve multis; capitula minora, longe ovoidea vel longe ovoideo-campanulata, sessilia, cernua, ba-

si minute bracteolata, ad ramulos in spicam vel spicam compositam disposita. Involucri phylla 3—4-seriata; bracteae exteriores minores, lanceolatae, dorso subglabrae vel parce arachnoideo-pubescentes, costa viridi, bracteae medianae et interiores ovatae vel longe ovatae, dorso parce arachnoideo-pubescentes vel subglabrae, costa viridi; flores marginales feminei 3—5; corolla anguste tubuliformis, apice 2-dentata; styli filiformes longiores, 2-divaricati, apice acuti; flores hermaphroditi 4—8; corolla tubulosa dorso punctata, apice purpurascens, post anthesin revoluta; antherae lineares, apice appendicibus acutis longe triangulatis praeditae, basi obtusae, filamentis brevioribus; styli corollae aequilongi, apice 2-divaricati, apice truncati, penicillati. Achaenia minora, longe ovoidea. Receptaculum nudum.

Sichuan (四川): Aba, Songpan-Nanping (阿坝松藩——南坪) S. Y. Zhao (赵素云) 82—101, (**Holotypus!** SCBI, Isotypus SICMM), l. c. 82—103, 82—104, 82—107, (SCBI et SICMM)。

产**四川**西部阿坝藏族自治州（松藩至南坪）。**模式标本**产四川阿坝州松藩。

近似于多头蒿 *A. pleiocephala* Pamp. 与神农架蒿 *A. shennongiaensis* Ling & Y. R. Ling, 区别：本种植物枝细长，茎、枝密被腺毛，叶面与背面脉上被短腺毛，背面除脉外密被蛛丝状柔毛，茎中部叶二回羽状全裂，每侧裂片4－5枚，裂片间距离宽，每裂片顶端的小裂片最长，线形、线状披针形或长椭圆形；头状花序外层总苞片背面近无毛或微被极稀疏的蛛丝状柔毛。

15. 假球蒿（新种） 图13

A. globosoides Ling & Y. R. Ling, sp. nov.

(Sect. *Dracunculus* Bess.)

Affinis *A. globosae* Krasch., sed differt totis plantis initio dense brunneo-pubescentibus, demum glabrescentibus, ramis haud patentibus, 4—11cm longis, capitulis minoribus, 1—1.5 mm diam., paniculis modice latae vel angustae.

Herba perennis vel suffrutescens. Rhizoma crassatum, lignosum, 0.8—1.2cm diam., ramis sterilibus praeditum. Radix

manifesta crassiuscula lignosa, 0.6—0.8cm diam., verticalis, radicibus lateralibus numerosis gracilibus subverticalibus. Caules nonnulli caespitosi, inferne sublignosi, erecti vel suberecti, 30—35cm alti, ramosi toti brunnei. Folia crassato-papyracea, initio brunneo-pubescentia demum glabrescentia, in sicco indurata; folia caulina inferiora et mediana brevipetiolata, petiolis 1—1.5cm longis, basi stipuliformibus, laciniis, ambitu subrotunda, oblonga vel ovata, 0.5—0.8cm longa lataque, bipinnatisecta, lobis utrinque 2, omnidus 2—3-lobulatts, lobulis ellipticis vel lanceolatis, 2—3mm longis et circ. 1mm latis, apice mucroratis; folia caulina superiora et subfloralia subsessilia, 5—3-secta, lobis ellipticis vel lanceolatis. Panucula modice lata vel angusta; capitula ovoidea, 1—1.5mm diam. sessilia vel subsessilia, cernua, basi bracteolata ad ramulos in spicam disposita. Invollucri phylla 3-seriata, glabra; bracteae exteriores minores et medianae ovatae vel longe ovatae, margine anguste membranaceae, dorso costa viridi, interiores longe ovatae, submembranaceae; flores marginales feminei 2—4, corolla anguste tubuliformis, stylis filiformes apice 2-divaricati; flores hermaphroditi 3—5, sed steriles; corolla tubulosa; antherae lineares, apice appendicibus acutis longe triangulatis praeditae, basi obtusae; styli breviores quam corollae, apice subcrassates, non-divaricates. Achaenia minuta, obovoidea. Receptaculum nudum.

Nei Monggol (**内蒙古**), Ulanqab Men乌兰察布盟) Y. C. Ma (马毓泉) 3541, (**Holotypus**; SCBI, Isotypus, NMU), 同地 NMAC, Forst. Depart. Exped. (内蒙古农牧学院林学系考察队) 25, (NMAC), Xilin Gol Men (锡林郭勒盟), non Coll. (无采集人) 419, (NMAC).

产内蒙古乌兰察布盟与锡林郭勒盟，生长在低海拔地区固定砂丘边缘与矿地。

本种近似于球蒿 *A. globosa* Krasch., 区别是本种分枝不开展、枝长4—11厘米，茎、枝、叶两面初时微被淡黄色短柔毛，后光滑无毛；头状花序小，总苞片背面无毛，在茎上组成中等开展或狭窄的圆锥花序。

16. 甘肃蒿 （新种） 图14

A. gansuensis Ling & Y. R. Ling, sp. nov.

(Sect. *Dracunculus* Bess.)

(1). 甘肃蒿（原变种）

var. gansuensis

A proxima *A. pubescenti* Ledeb. (*A. commutata* Bess.), differt planta humiliore, foliis caulinis medianis minoribus, (2-)1-pinnatisectis, lobis utrinque 2(-3), linearibus. 0.3—0.5cm longis es 0.5mm latis, paniculis modice amplis, capitulis minoribus, ovoideis vel late ovoideis, 1.5—2mm diam. pedicellatis, ad rami apicem et ad ramulos in racemos spiciformes angustos dispositis.

Herba perennis vel suffrutescens tota planta initio pallido-pubescens, demum glabrescens. Rhizoma crassiusculum, lignosum, 0.5—1cm diam., ramis sterilibus praeditum. Radix manifesta lignosa, verticalis, radicibus lateralibus numerosis. Caules multi vel nonnulli caespitosi, erecti, inferne lignosi, superne herbidi, 18—40cm alti, striati, brunnei vel brunneoli, raamulosi, 3—8cm longi, Folia minora, basalia et caulina inferiora brevipetiolata, ambitu late ovata vel rotunda, 2—3.5 cm longa et 2—3cm lata, bipinnatisecta. lobis utrinque (4-)3 (-2), 3-sectis, lobulis anguste linearibus, 0.5—0.8cm longis et 0.5—1mm latis, apice mucronatis; folia caulina mediana brevipetiolata, ambitu late ovata rotunda, 1.5—2.5cm longa lataque, (2-)1-pinnatisecta, lobis utrinque 2(-3), lobulis anguste linearibus, 0.3—0.5cm longis et circ. 0.5mm latis; folia caulina superiora et sudfloralia sessilia, 5—3-secta. Panicula modice ampla; capitula minora, ovoidea vel late ovoidea, 1.5—2mm diam., pedicellata, pedicellis 1—2mm longis, bracteolata, ad ramorum apices et ad ramulos in racemos spiciformes angustos disposita. Involucri phylla 3—4-seriata; bracteae exteriores et medianae papyraceae, ovatae vel longe ovatae, margine late membranaeeae, dorso demum glabrescentes, initio pubescentes, eae interiores submembranaceae; flores marginales feminei 3—

6; corolla anguste tubuliformis, vel anguste subconica, apice 2-dentata; styli longiores quam corollae, divaricati, apice acuti; flores hermaphroditi 4—8, sed steriles; corolla tubulosa; antherae lineares apice appendicibus acutis longe triangulatis praeditae, basi obtusae; styli breviores quam corollae, apice crassiusculi, non-divaricati. Achaenia obovoidea. Receptaculum nudum.

Gansu (**甘肃**): Guyuan (固原), Acad. Sin. Huang He Exped. (中国科学院黄河考察队) 2413, (**Holotypus**; PE. Isotypus; WUG.) l. c. 2575, 7812, (PE); Lanzhou (兰州) T. P. Wang (王作宾) 7384 (PE, WUG et SCBI), S. Q. Zhung (仲仕奇) 177, (WUG), Singlong Shan, (兴隆山) non coll. (无采集人) 3355, (IBNWTC); **Nei Monggol** (**内古蒙**): Hohhot (呼和浩特郊区) Y. R. Ling (林有润) 73—151, (SCBI), Y. C. Ma (马毓泉) 127; Beijing (北京郊区) T. N. Liou (刘慎谔) 1008, Y. R. Ling (林有润) 69, (SCBI); **Liaoning** (辽宁): Chifeng; (赤峰), T. N. Liou (刘慎谔) 5186, (PE); **Shaanxi** (陕西): Jingbian (靖边) K. T. Fu (付坤俊) 7409, (WUG et SCBI); **Shanxi** (**山西**); T. Kanasito 4242 (PE); **Ningxia** (宁夏): Yanchi (盐池), non coll. (无采集人) 003, 1115 (PE); **Qinghai** (青海): Qinhai Lake (青海湖附近), Y. R. Ling (林有润) 80—108 (SCBI), Acad. Sin. Gan.——Qing. Exped. (中国科学院甘青队) 811 (PE).

产河北(北部)、山西(北部)、**内蒙古**、**陕西**、**甘肃**、**宁夏**、**青海**，生长在干旱坡地、黄土高原、路旁等。

本种近似于柔毛蒿 *A. pubescens* Ledeb., 区别在于本种植株矮小，茎中部叶小，(二—)一回羽状全裂，每侧裂片2(—3)枚，裂片狭线形，长0.3—0.5厘米，宽约0.5毫米；头状花序小，卵形或宽卵形，直径1.5—2毫米，具短梗，在分枝端或小枝上排成穗状式的狭总状花序并在茎上组成中等宽展的圆锥花序。

(2). **小甘肃蒿** (新变种)

var. **oligantha** Ling & Y. R. Ling, var. nov.

A *A. gansuenti* var. *gansuensi* differt capitulis minimis, 1 (—1.5) mm diam., pedicellatis 2.5—3.5mm longis, floribus marginalibus femineis 1—2, hermaphroditis 2—5.

Nei Monggol (内蒙古), Ih Ju Meng (伊克昭盟) Liou-Chen (刘一陈) 533, (Holotypus; SCBI, Isotypus, PE), NMU Exped. (内蒙古大学考察队) 370, (NMU et SCBI), non coll. (无采集人) 135. (NMU)。

与原变种区别在于本变种头状花序细小，直径1（-1.5）毫米，花序梗长2.5—3.5毫米，雌花1—2朵，两性花2—5朵。

产内蒙古南部（伊克昭盟）生长在戈壁、荒漠边缘等处。

17. 彭错蒿 （新种） 图15

A. pengchuoensis Y. R. Ling & S. Y. Zhao, sp. nov.

(Sect. *Latilobus* Y. R. Ling)

Specie ab speciebus congenericis ramis brevioribus, foliis caulinis medianis 2—1-pinnatisectis, lobis utrinque 2—3, lobis basalibus lobulis utrinque 1—2 praeditis, lobis lobulisve linearibus vel lineari-lanceolatis, 3—4mm longis et 2—2.5mm latis; capitulis subglobosis, 2—2.5(-3)mm diam. sessilibus, ad ramos in spicas densas dispositis, paniculis angustis elongatis distincta.

Herba perennis tota planta subglabra vel folia subtus raro pubescentia. Rhizoma crassiusculum, 0.4—0.8cm diam. Radix manifesta, gracilis vel crassiuscula, sublignosa, radicibus lateralibus multis. Caules singulares vel nonnulli, erecti, 30—40cm alti, purpurei vel brunnei, striati, ramis 10—20cm longis, Folia tenuiter papyracea, basalia et caulina inferiora petiolata, petiolis 1.5—2.5cm longis, basi stipuliformibus, minoribus, ambitu ovata vel longe ovata, 2—2.5cm longa lataque, bipinnatisecta, lobis utrinque 2, lobulis linearibus vel lineari-lanceolatis, 3—4mm longis et 1—1.5mm latis, apice acutis; folia caulina mediana et superiora sessilia vel subsessilia, ambitu ovata, 2—1-pinnatisecta, lobis utrinque 2—3, integris vel lobis basalibus 1—2 lobulis, lobis lobulisque linearibus vel lineari-lanceolatis, 3—4mm longis et 2—2.5mm latis; folia subfloralia 5—3-secta. Panicula angusta, elongata; capitula minora, rotunda, 2—2.5mm diam. sessilia, basi bracteolata, bracteolis linearibus, ad ramos in spicas densas dis-

posita. Involucri phylla 3—4-seriata; bracteae subequales, exteriores et medianae ovatae vel longe ovatae, margine anguste membranaceae, costa viridi, eae interiores submembranaceae, ellipticae; flores marginales feminei 3—8; corolla anguste tubuliformis, vel anguste subconica, apice 2-dentata; styli longiores quam corollae, 2-divaricatis, apice acutis; flores hermaphroditi 7—15, sed steriles; corolla tubulosa; antherae lineares, apice appendicibus acutis longe triangulatis praeditae, basi obtusae; styli breviores quam corollae, apice crassiusculi, nondivaricates. Achaenia obovoidea. Receptaculum oucum.

Sichuan (**四川**) : Pengchuo (彭错), P. C. Tsoong (钟补求) 7415, (**Holotypus**; PE), H. C. Chou (周鹤昌) 704 (WUBI).

产四川西部彭错县。生长在中海拔地区路旁。**模式标本**产四川彭错县。

本种植物分枝短，茎中部叶2—1回羽状全裂，每侧裂片2—3枚，基部裂片常再分裂，每侧具1—2枚小裂片，裂片或小裂片线形或线状披针形，长3—4毫米，宽2—2.5毫米；头状花序近球形，直径2—2.5(—3毫米，无梗，在分枝上密集着生成密穗状花序并在茎上组成狭窄而伸长的圆锥花序。



图9 甘新青蒿 Artemisia polybotryoidea Y. R. Ling

1. 花序枝；2. 茎中部叶；3. 头状花序；4，5. 外、中层总苞片；6. 雌花；7. 两性花；8. 雄蕊；9. 两性花的花柱。（邓盈丰绘）

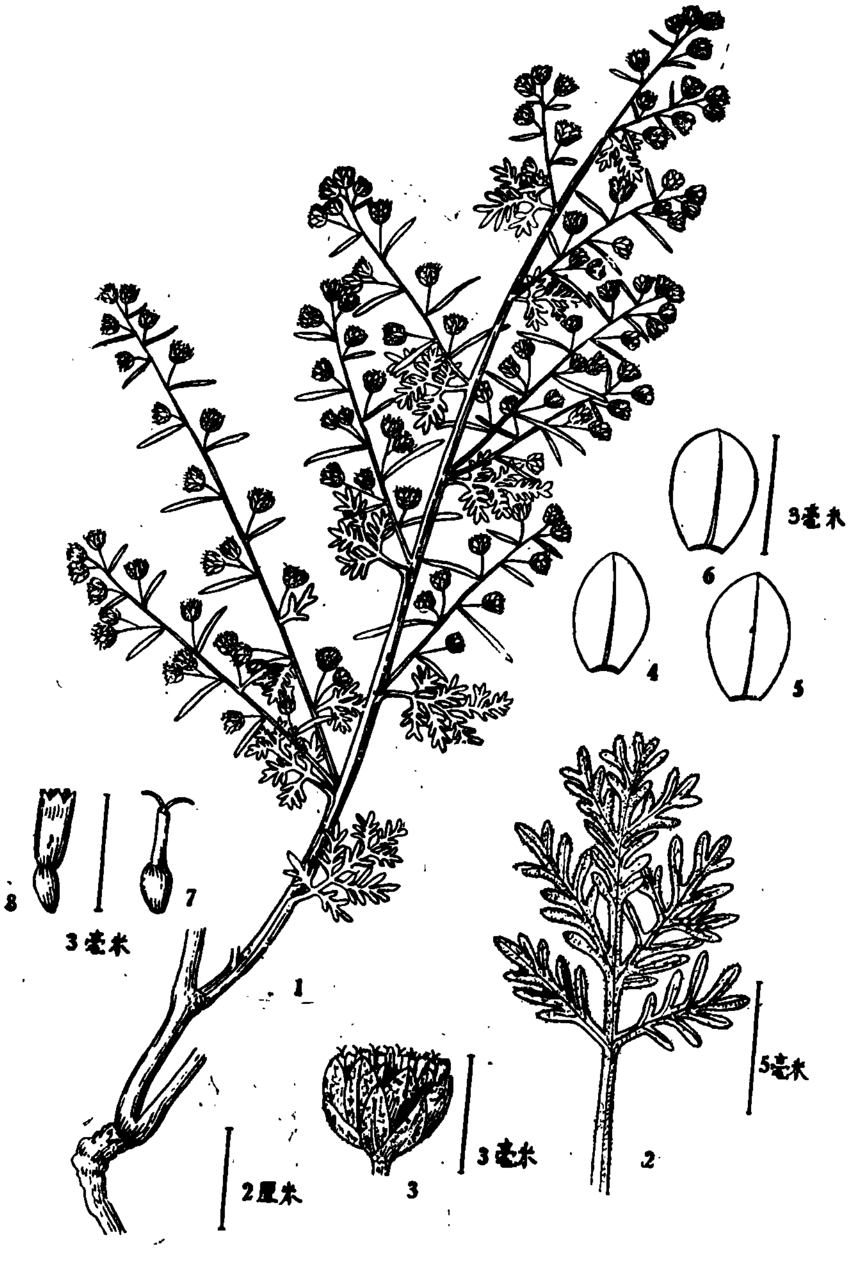


图10 阿克赛蒿 A. aksaiensis Y. R. Ling
1. 花序枝；2. 茎中部叶；3. 头状花序；4, 5, 6. 外、中、内层总苞片；7. 雌花；8. 两性花。
(邓晶发绘)

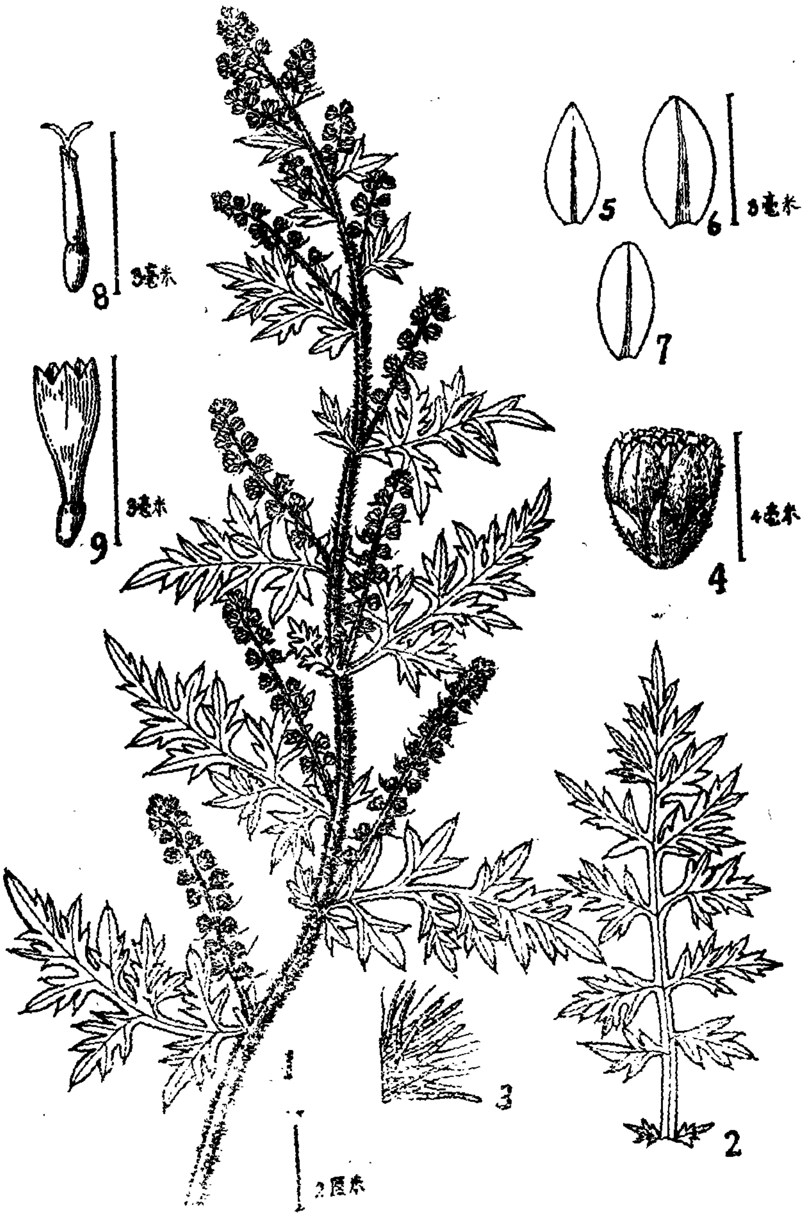


图11. 阿坝蒿 a. abaensis Y. R. Ling & S. Y. Zhao

1. 花序枝；2. 茎中部叶；3. 茎、枝上的具多节的长柔毛与细绵毛；4. 头状花序；5, 6, 7. 外、中、内层总苞片；8. 雌花；9. 两性花。（邓晶发绘）.

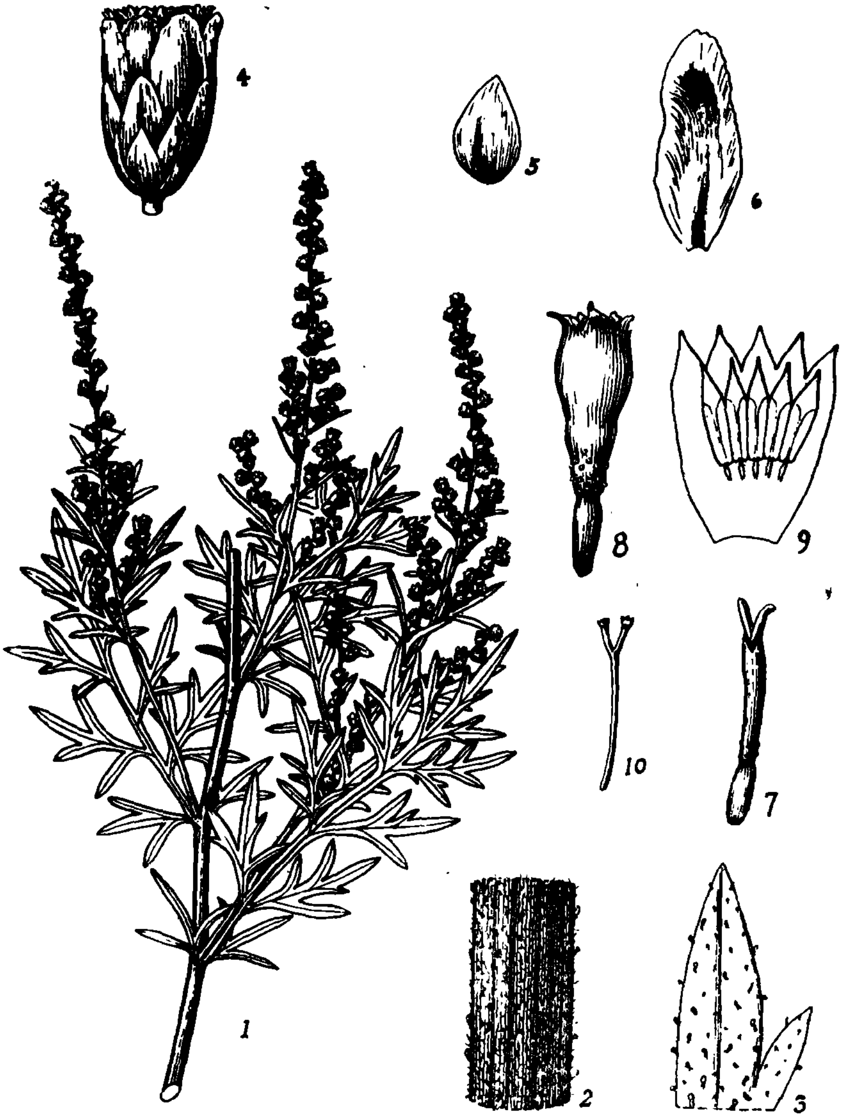


图12　川西腺毛蒿 A. occidentali-sichuanensis Y. R. Ling & S. Y. Zhao

1. 花序枝；2. 茎一部分，示腺毛；3. 叶一部分，示腺毛；4. 头状花序；5, 6. 外、中层总苞片；7. 雌花；8. 两性花；9. 两性花花冠纵切，示雄蕊着生方式；10. 两性花的花柱。
（余峰绘）

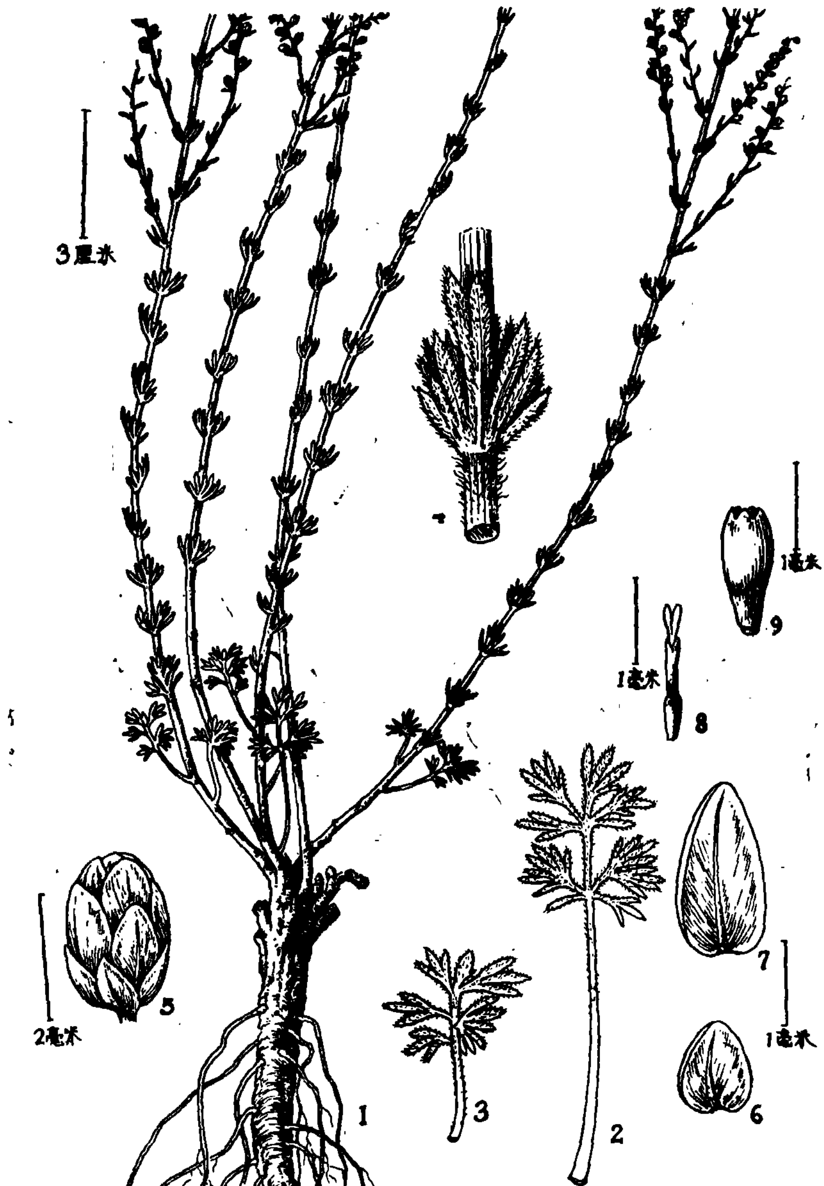


图13. 假球蒿 A. globosoides Ling & Y. R. Ling
1. 植株一部分；2, 3. 茎下部与中部叶；4. 茎上部叶；5. 头状花序；6, 7. 外、中层总苞片；8. 雌花；9. 两性花。（邓盈丰绘）

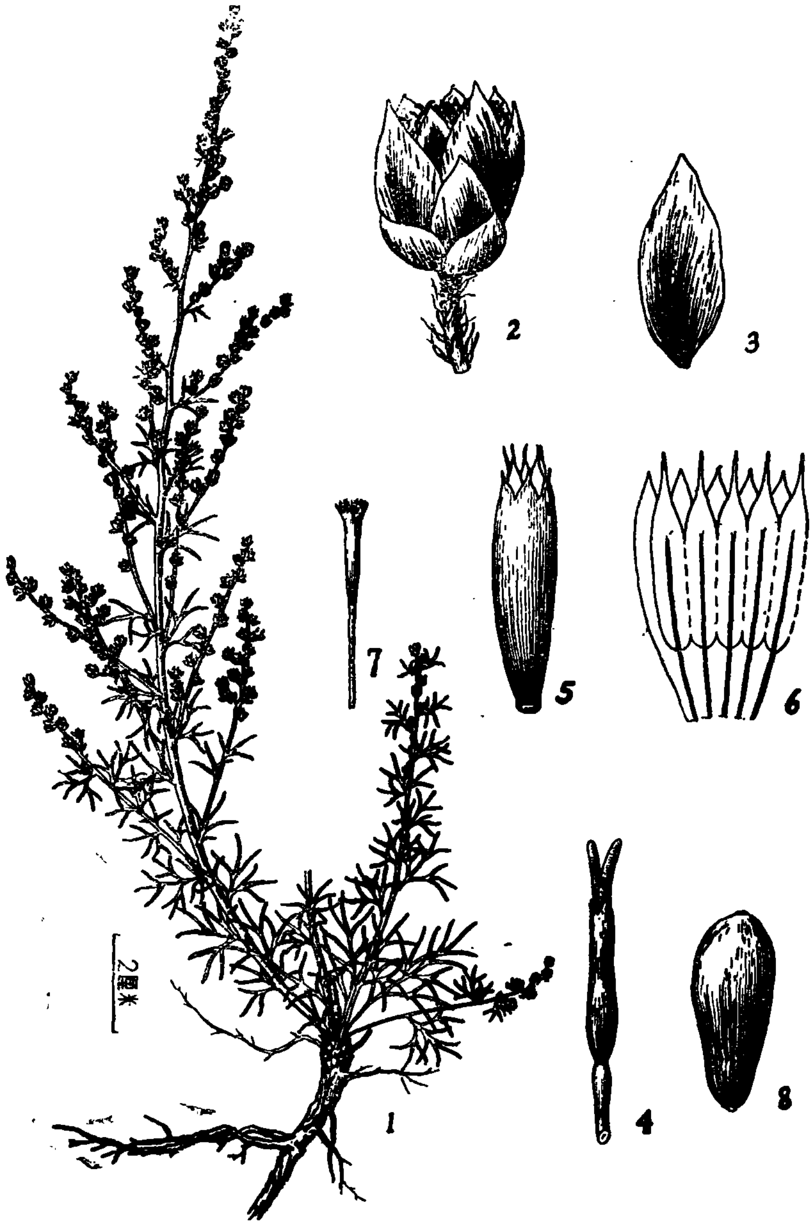


图14 甘肃蒿 *A. gansuensis* Ling & Y. R. Ling

1. 植株一部分；2. 头状花序；3. 中层总苞片；4. 雌花；5. 两性花；6. 两性花花冠纵切，示雄蕊着生；7..花柱；8. 雌花发育的瘦果。（余峰绘）

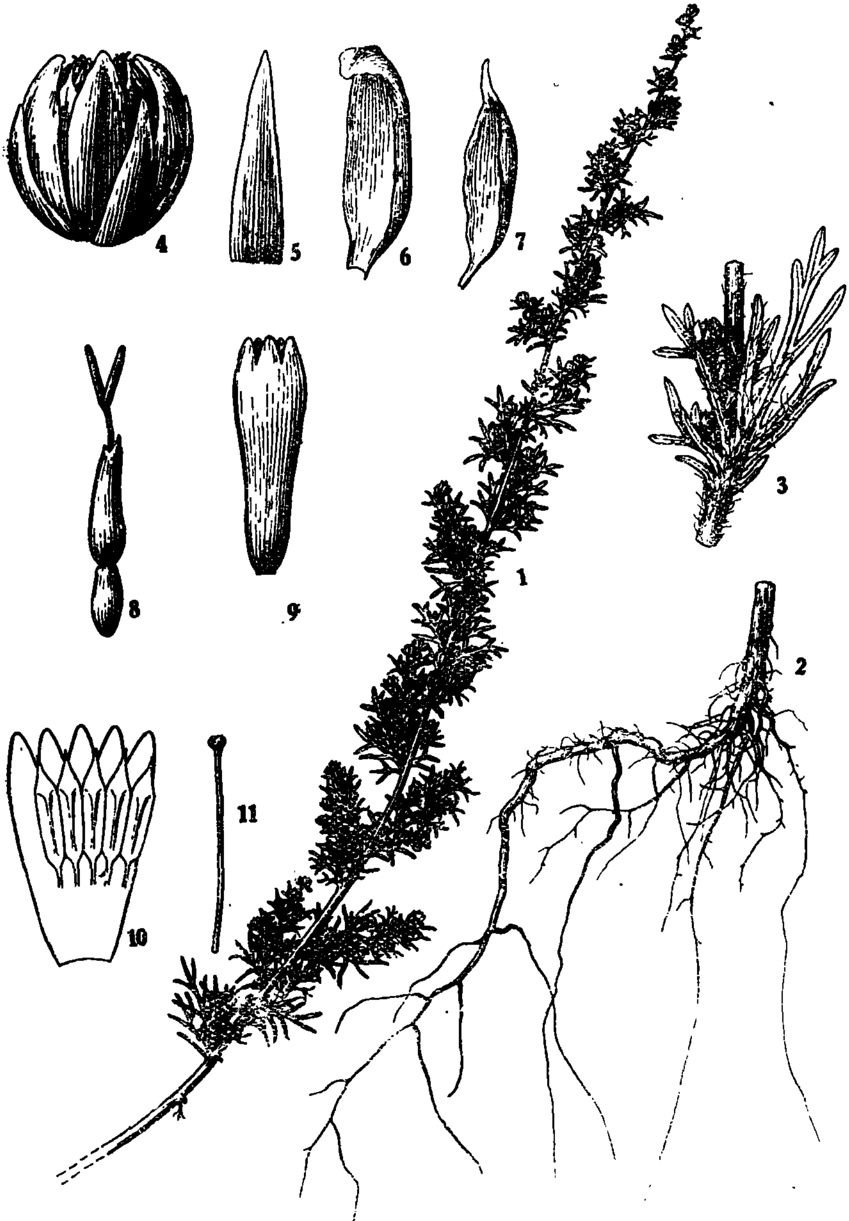


图15 彭错蒿 A. pengchuoensis Y. R. Ling & S. Y. Zhao

1. 花序枝；2. 根系；3. 茎中部一部分，示叶与头状花序着生方式；4. 头状花序；5, 6, 7. 外、中、内层总苞片；8. 雌花；9. 两性花；10. 两性花花冠纵切，示雄蕊着生方式；11. 两性花的花柱。（余峰绘）。